Contract Academic Staff Assistant Professor (Research) in Applied Embryology and Genomics

Faculty: Faculty of Agricultural and Environmental Sciences

Department/School: Department of Animal Science

Position Description

There is a need for the development and study of animal models with tailored genomes for biomedical and agricultural applications. Pigs are representative models of human pathophysiology in addition to being very important for the agricultural sector and food production. Common marmosets are becoming critical animal models for advancing fundamental and translational research in biomedical sciences because of several similarities to human physiology, development and neuroanatomy as well as for social and cognitive functions. In vitro embryo technologies and somatic cell nuclear transfer coupled with CRISPR/Cas-based gene editing are powerful tools for creating unique pig and marmoset models for uncovering disease mechanisms as well as developing and validating therapies.

The Department of Animal Science at McGill University invites applications for two non-tenure-track Contract Academic Staff (Research) positions ranked at the level of Assistant Professor in the field of Applied Embryology and Genomics. The positions are for a 3-year term (possible to renew depending on performance review and funding availability).

McGill University is one of Canada's oldest and most prestigious institutions of higher learning with 40,000 students, and 1,700 tenure-track professors. The Faculty of Agricultural and Environmental Sciences is located on McGill University's Macdonald Campus, which occupies 650 hectares in a beautiful waterfront setting on the western tip of the island of Montreal.

The Department of Animal Science is part of research facilities at the Faculty of Agricultural and Environmental Sciences equipped with an array of laboratories and infrastructure to carry out cutting edge research in animal sciences. The McGill Large Animal Research Unit with its ongoing state-of-the-art renovations will provide multiple cutting-edge capabilities for animal model development and research. This research is complemented by the existing strengths of the department in the areas of animal physiology, welfare, molecular biology, reproductive biotechnology, microbiome sciences, bioinformatics, data analytics, genetics and nutrition.

Required Qualifications

The candidates must have a PhD and postdoctoral training in embryo biology and genome editing with expertise in non-murine species. Expertise in embryology, assisted reproductive technologies, somatic cell nuclear transfer, gene-editing, and cell reprogramming, as well as strong collaborative and communication skills are also expected. Ability to communicate in French and prior teaching/mentoring experience are beneficial.

Job Duties

The successful candidates are expected to develop a fundamental and/or translational research program based on porcine or marmoset embryo and genome technologies, cell reprogramming and somatic cell nuclear transfer, to investigate processes of biomedical importance. The examples of research areas include but not limited to neurodevelopmental conditions, neurodegenerative diseases, metabolic diseases, cardiovascular diseases, chronic pain, cancer, and regenerative medicine. The successful candidates are also expected to lead a team of students and researchers by acquiring external funding. In addition, the candidates will contribute by teaching undergraduate and graduate courses in the areas of animal health and biotechnology.

JOB DETAILS

Job Classification:	Contract Academic Staff Position (Researcher)
Rank:	*Assistant* Professor
Job Status:	Full-time and non-tenure track
Salary:	Commensurate with qualifications and experience
Application Deadline:	Application deadline is July 23, 2022, or until position filled.

APPLICATION PROCESS

Applications must be submitted via McGill's HR system Workday.

Careers (myworkdayjobs.com)

Please refer to *Guide for External Candidates* for application instructions*:*
https://www.mcgill.ca/hr/files/hr/workday_guide_for_candidates_extenal_en.pdf

The following supporting documents are required:

1. Cover letter (1 page)

2. Curriculum Vitae (Academic experience, employment experience, publication record, grant writing experience, teaching/mentorship experience, awards/recognitions, list of three referees)
3. Research statement (2-3 pages) describing a 3-year research plan built upon past research experience, current industry needs and potential funding opportunities.
4. Teaching statement (1 page) describing teaching philosophy and plans to teach undergraduate courses in Animal Science

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Commitment to Equity and Diversity

McGill University is committed to equity and diversity within its community and values academic rigour and excellence. We welcome and encourage applications from racialized persons/visible minorities, women, Indigenous persons, persons with disabilities, ethnic minorities, and persons of minority sexual orientations and gender identities, as well as from all qualified candidates with the skills and knowledge to engage productively with diverse communities.

At McGill, research that reflects diverse intellectual traditions, methodologies, and modes of dissemination and translation is valued and encouraged. Candidates are invited to demonstrate their research impact both within and across academic disciplines and in other sectors, such as government, communities, or industry.

McGill further recognizes and fairly considers the impact of leaves (e.g., family care or health-related) that may contribute to career interruptions or slowdowns. Candidates are encouraged to signal any leave that affected productivity, or that may have had an effect on their career path. This information will be considered to ensure the equitable assessment of the candidate's record.

McGill implements an employment equity program and encourages members of designated equity groups to self-identify. It further seeks to ensure the equitable treatment and full inclusion of persons with disabilities by striving for the implementation of universal design principles transversally, across all facets of the University community, and through accommodation policies and procedures. Persons with disabilities who anticipate needing accommodations for any part of the application process may contact, in confidence, this email or phone at 514-398-2477.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.

(June 15, 2022)